

IN THE CLAIMS

Kindly amend the following claims as indicated.

1. (Cancel) A portable remote swivel nozzle assembly with adjustable spray orientation for spraying pressurized fluids, comprising:
a portable extension pole with a proximal end and a distal end,
a swivel nozzle including a base connected to the pole distal end at a swivel nozzle base connector and a head swivelly connected to the base, the swivel nozzle having a through passageway between the pole distal end and a discharge orifice in the head,
an actuator on the extension pole,
wherein the actuator and the swivel nozzle head are mechanically linked to communicate movement of the actuator to the head in adjusting orientation of the head relative to the base.
2. (Currently amended) A portable remote swivel nozzle assembly with adjustable spray orientation for spraying pressurized fluids, comprising:
a portable extension pole with a proximal end and a distal end,
a swivel nozzle including a base immovably affixed to the pole distal end and a head swivelly connected to the base, the swivel nozzle having a through passageway between the pole distal end and a discharge orifice in the head,
~~The apparatus of claim 1 wherein the actuator comprises a hand grip slidable on the pole causing the head to rotate relative to the base, adjusting orientation of the head as the hand grip slides on the pole, the hand grip and the swivel nozzle head being mechanically linked to communicate movement of the hand grip to the~~

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head such that all sliding movements of the hand grip on the pole causes rotation of the head on the base.

3. (Previously presented) The apparatus of claim 2 wherein the hand grip is adapted as a pole hold, ~~suitable for an operator accepting an operator's first hand in bracing to brace the pole with a first hand while the operator's other hand operates a trigger during dispersal of fluid from the spray nozzle.~~
4. (Cancel) The apparatus of claim 1 wherein the actuator comprises a pole arm mounted pivotally on the pole at a fixed position and connecting to the head through a rod such that pivoting of the pole arm causes the head to rotate.
5. (Currently amended) A portable remote swivel nozzle assembly with adjustable spray orientation for spraying pressurized fluids, comprising:
a portable extension pole with a proximal end and a distal end,
a swivel nozzle including a base immovably affixed to the pole distal end and a head swivelly connected to the base, the swivel nozzle having a through passageway between the pole distal end and a discharge orifice in the head.
~~The apparatus of claim 1 wherein the actuator comprises a pole arm with a longitudinal axis transverse to the pole as a handle hand grip mounted at a fixed position on the pole and rotatable on an said axis transverse to the pole, adapted~~

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as a pole hold accepting an operator's first hand in bracing the pole while the operator's other hand operates a trigger during dispersal of fluid from the spray nozzle.

a rod functionally connecting the hand grip and the head such that rotation of the handle-hand grip on its axis causes the head to rotate, and mechanically connecting to the head the rod held against rotation by the user's first hand in opposing reaction forces of fluid expelled through the nozzle head when the user's first hand is simultaneously bracing the pole on the hand grip.

6. (Cancel) The apparatus of claim 1 wherein the pole is tubular with a pole passageway therethrough as a fluid conduit between a pole connector on the pole proximal end and a nozzle connector on the pole distal end.
7. (Cancel) The apparatus of claim 1 further comprising a lever attached to the head extending outward therefrom to which a rod is attached connecting the actuator to the head, the lever positioned relative to the head such that the head is directed mostly forward when the actuator is fully extended, and directed away from forward when the actuator is fully withdrawn.
8. (Cancel) The apparatus of claim 7 wherein the head rotates on the base with minimal friction therein accommodating quick and facile remote adjustment of head

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orientation, the lever connected through the rod to the adjustable actuator on the pole maintaining the head properly oriented during high pressure fluid discharge from the head in opposition to reaction forces from the discharge of the fluid.

9. (Currently amended) A portable remote swivel nozzle assembly with adjustable spray orientation for spraying pressurized fluids, comprising:
a portable extension pole with a proximal end and a distal end,
a swivel nozzle including a base connected to the pole distal end at a swivel nozzle
base connector and a head swivelly connected to the base, the swivel nozzle
having a through passageway between the pole distal end and a discharge orifice
in the head,
an actuator on the extension pole,
wherein the actuator and the swivel nozzle head are mechanically linked to
communicate movement of the actuator to the head in adjusting orientation of the
head relative to the base,
a lever attached to the head extending outward therefrom to which a rod is attached
connecting the actuator to the head, the lever positioned relative to the head such
that the head is directed mostly forward when the actuator is fully extended, and
directed away from forward when the actuator is fully withdrawn, and
~~The apparatus of claim 7 wherein the swivel nozzle further comprises~~

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a manifold providing fluid connection between the base and the head, the head firmly connected to the manifold and the base swivelly connected to the manifold each with a fluid seal and having a manifold passageway through the manifold continuing fluid communication between the base connector and the discharge orifice in the head, and wherein the manifold includes a cylindrical surface between the base and the head passing through a hole in the lever, the head further comprising a lug extending from the head toward the base with a flat presented toward and engaging the lever flat such that when the lever is rotated, the lever flat engages the head flat which causes the head and manifold to rotate, therein adjusting orientation of the head relative to the base.

10. (Cancel) The apparatus of claim 1 wherein the swivel nozzle further includes a manifold providing fluid connection between the base and the head, the head connected to the manifold and the base swivelly connected to the manifold each with a fluid seal and having a manifold passageway axially through the manifold continuing fluid communication between the base connector and the discharge orifice in the head.

11. (Currently amended) A portable remote swivel nozzle assembly with adjustable spray orientation for spraying pressurized fluids, comprising:
a portable extension pole with a proximal end and a distal end,
a swivel nozzle including

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a base connected to the pole distal end at a swivel nozzle base connector,
a head swivelly connected to the base, the swivel nozzle having a through
passageway between the pole distal end and a discharge orifice in the head,
and a manifold providing fluid connection between the base and the head, the head
connected to the manifold and the base swivelly connected to the manifold each
with a fluid seal and having a manifold passageway axially through the
manifold continuing fluid communication between the base connector and the
discharge orifice in the head,
an actuator on the extension pole,
wherein the actuator and the swivel nozzle head are mechanically linked to
communicate movement of the actuator to the head -to rotate the head relative to
the base.

The apparatus of claim 10 further comprising a plurality of swivel nozzle seals all of
which are contained within the swivel nozzle base in sealing the swivel nozzle
from fluid leaks, the seals being within the swivel nozzle base protecting the seals
from damage during use.

12. (Currently amended) The apparatus of claim 10 11 wherein the manifold is integral
with integrated into the head as a single unit-unitary inseparable whole with no
relative movement between them, attachable to the base and removable therefrom by

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action of a bolt threadably engaging a base end of a manifold, securing the manifold to the base.

13. (Cancel) The apparatus of claim 10 wherein the head is adjustable approximately 180 degrees relative to the pole by action of the actuator.

14. (Currently amended) A portable remote swivel nozzle assembly with adjustable spray orientation for spraying pressurized fluids, comprising:
a portable extension pole with a proximal end and a distal end,
a swivel nozzle including a base connected to the pole distal end at a swivel nozzle
base connector and a head swivelly connected to the base, the swivel nozzle
having a through passageway between the pole distal end and a discharge orifice
in the head,
an actuator on the extension pole,
wherein the actuator and the swivel nozzle head are mechanically linked to
communicate movement of the actuator to the head in adjusting orientation of the
head relative to the base,
and wherein the swivel nozzle further includes a manifold providing fluid connection
between the base and the head, the head connected to the manifold and the base
swivelly connected to the manifold each with a fluid seal and having a manifold

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passageway axially through the manifold continuing fluid communication

between the base connector and the discharge orifice in the head,

The apparatus of claim 10 in which the head is spaced apart from the base with a continuous air gap between all base and head opposing surfaces in eliminating frictional engagement between them.

15. (Currently amended) The apparatus of claim 10 further comprising a bolt with a head, the bolt threaded into matching threads in the manifold passageway at its head base end, the bolt terminating in the manifold within the base,
upper and lower O-rings spaced apart around the manifold,
wherein the base further includes a base bore perpendicular to a base axis running longitudinally with the base with a base passageway between the base bore and a base entry orifice,
and wherein the manifold further comprises a manifold upper passageway radial from a manifold axis that runs longitudinally with the manifold, and a manifold upper circumferential groove intersecting the manifold upper passageway between the upper and lower O-rings and coplanar with the base passageway therein providing fluid communication between the base entry orifice through the base passageway to the manifold upper circumferential groove and then to the manifold axial passageway, the O-rings establishing a fluid seal between the base

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and the manifold such that fluid from the base entry orifice flows only into the manifold axial passageway.

16. (Currently amended) A portable remote swivel nozzle assembly with adjustable spray orientation for spraying pressurized fluids, comprising:
a portable extension pole with a proximal end and a distal end,
a swivel nozzle including a base connected to the pole distal end at a swivel nozzle
base connector and a head swivelly connected to the base, the swivel nozzle
having a through passageway between the pole distal end and a discharge orifice
in the head,
an actuator on the extension pole,
wherein the actuator and the swivel nozzle head are mechanically linked to
communicate movement of the actuator to the head in adjusting orientation of the
head relative to the base,
and wherein the swivel nozzle further includes a manifold providing fluid connection
between the base and the head, the head connected to the manifold and the base
swivelly connected to the manifold each with a fluid seal and having a manifold
passageway axially through the manifold continuing fluid communication
between the base connector and the discharge orifice in the head,
a bolt with a head, the bolt threaded into matching threads in the manifold
passageway at its base end, the bolt terminating in the manifold within the base,

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upper and lower O-rings spaced apart around the manifold,
wherein the base further includes a base bore perpendicular to a base axis running
longitudinally with the base with a base passageway between the base bore and a
base entry orifice,
and wherein the manifold further comprises a manifold upper passageway radial
from a manifold axis that runs longitudinally with the manifold, and a manifold
upper circumferential groove intersecting the manifold upper passageway
between the upper and lower O-rings and coplanar with the base passageway
therein providing fluid communication between the base entry orifice through the
base passageway to the manifold upper circumferential groove and then to the
manifold axial passageway, the O-rings establishing a fluid seal between the base
and the manifold such that fluid from the base entry orifice flows only into the
manifold axial passageway,

~~The apparatus of claim 15 in which the base has upper and lower recesses opening upward and downward, respectively, outward from the base and forming upper and lower shoulders around the base bore, the O-rings positioned on the upper and lower shoulders respectively, and wherein the manifold includes an annular shelf circumferential about the manifold and intermediate its length, the upper O-ring compressed between the bolt head and the upper shoulder and the lower O-ring compressed between the annular shelf and the lower shoulder as the bolt~~

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tightens into the manifold pulling the manifold shelf and the bolt head together on opposite sides of the base.

17. (Previously amended) The apparatus of claim 16 in which the lower recess and annular shelf are sized such that the shelf fits inside the lower recess when the bolt is tightened.
18. (Previously presented) The apparatus of claim 15 wherein the head further includes a head bore perpendicular to a head axis running longitudinally with the head with a head passageway between the head bore and a head discharge orifice, and wherein the manifold further comprises a manifold lower passageway radial from the manifold axis and in fluid communication with the head passageway therein providing fluid communication between the base entry orifice and the head discharge orifice.
19. (Previously presented) A remote portable spray nozzle with adjustable spray orientation for spraying pressurized fluids, comprising:
a portable extension pole with a proximal end and a nozzle connector on a distal end to which pressurized fluid is delivered wherein the pole is tubular with a pole passageway therethrough as a fluid conduit between a pole connector on the pole proximal end and the nozzle connector on the pole distal end,

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a swivel nozzle including
upper and lower O-rings,

a base connected to the nozzle connector and having a base bore perpendicular to a
base axis running longitudinally with the base with a base passageway between
the base bore and a base entry orifice,

a manifold swivelly connected to the base and having an axis that runs
longitudinally with the manifold and an axial passageway axially through the
manifold, a manifold upper passageway radial from the manifold axis, and a
manifold upper circumferential groove intersecting the manifold upper
passageway between the upper and lower O-rings spaced apart around the
manifold and coplanar with the base passageway therein providing fluid
communication between the base entry orifice through the base passageway to
the manifold upper circumferential groove and then to the manifold axial
passageway, the O-rings establishing a fluid seal between the base and the
manifold such that fluid from the base entry orifice flows only into the manifold
axial passageway, the manifold further having a manifold lower passageway
radial from the manifold axis,

a head with a head axis that runs longitudinally with the head and having a head
bore perpendicular to the head axis receiving a portion of the manifold and a
head passageway between the head bore and a head discharge orifice, the

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manifold lower passageway being in fluid communication with the head passageway, the manifold thus providing fluid connection between the base connector in the base and the discharge orifice in the head, with a fluid seal preventing fluid leakage between the manifold and the head, the head being spaced apart from the base with a continuous air gap between all base and head opposing surfaces in eliminating frictional engagement between them,

an actuator on the extension pole comprising a hand grip slidable on the pole near the pole proximal end, adapted to adjust orientation of the head as the hand grip slides on the pole,

a rod between the actuator and the swivel nozzle head adapted to communicate movement of the actuator to the head in adjusting orientation of the head relative to the base, the head being adjustable approximately 180 degrees relative to the base by action of the actuator,

a lever attached to the head extending outward therefrom to which the rod is attached connecting the actuator to the head, the lever positioned relative to the head such that the head is directed mostly forward, or in near alignment with the pole, when the actuator is fully extended, and directed mostly rearward, or in near counteralignment with the pole, when the actuator is fully withdrawn wherein the head rotates on the base with minimal friction adapted to accommodate quick and facile remote adjustment of head orientation, the lever connected through the

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rod to the adjustable actuator on the pole maintaining the head properly oriented during high pressure fluid discharge from the head, seals contained within the swivel nozzle sealing the swivel nozzle from fluid leaks between the base and the manifold, the seals being within the swivel nozzle to protect them from damage during use.

20. (Currently amended) The apparatus of claim 19 further comprising a bolt with a head, the bolt threaded into matching threads in the manifold passageway at its head base end, the bolt terminating in the manifold within the base, the base further having upper and lower recesses opening upward and downward, respectively, outward from the base and forming upper and lower shoulders around the base bore, the O-rings positioned on the upper and lower shoulders respectively, and wherein the manifold includes an annular shelf circumferential about the manifold and intermediate its length, the upper O-ring compressed between the bolt head and the upper shoulder and the lower O-ring compressed between the annular shelf and the lower shoulder as the bolt tightens into the manifold pulling the manifold shelf and the bolt head together on opposite sides of the head, the lower recess and annular shelf sized such that the shelf fits inside the lower recess when the bolt is tightened.

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21. (Previously presented) A swivel nozzle useful on attachment to an extension pole,
comprising

a base with a base axis running longitudinally with the base and having a bore
therethrough perpendicular to the base axis and a passageway parallel to the axis
between the bore and an entry orifice,
a base connector on the base at the entry orifice adapted to connect the base to a
conduit providing pressurized fluid to the base through the entry orifice,
a head swivelly connected to the base and having a through passageway between the
base connector and a discharge orifice in the head, all base and head opposing
surfaces spaced apart by a continuous air gap between them therein eliminating
frictional engagement between said opposing surfaces.

22. (Previously presented) The swivel nozzle of claim 21 further comprising a manifold
providing fluid connection between the base and the head, the head connected to the
manifold and the base swivelly connected to the manifold each with a fluid seal and
having a manifold passageway through the manifold continuing fluid
communication between the base connector and the discharge orifice in the head.

23. (Previously presented) The swivel nozzle of claim 21 wherein the head further
comprises a manifold portion extending therefrom and into the base bore providing
fluid connection between the base and the head and having a manifold passageway

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through the manifold portion contributing to fluid communication between the base connector and the discharge orifice in the head

24. (Previously presented) The swivel nozzle of claim 22 wherein the manifold is connected swivelly to the base with a fluid seal therebetween.

25. (Previously presented) The swivel nozzle of claim 24 wherein the fluid seal is between the base and the manifold within the base bore.

26. (Previously presented) The apparatus of claim 21 further comprising said fluid seal inside the swivel nozzle with no external exposure, the seals thus protected from damage during use.

27. (Previously presented) The apparatus of claim 26 wherein swivel nozzle seals are exclusively inside the swivel nozzle within the base bore.

28. (Previously presented) The apparatus of claim 22 wherein the manifold is integrated into the head precluding relative movement between the head and the manifold.

29. (Previously presented) The apparatus of claim 21 wherein the head is adjustable through a full 360-degree revolution relative to the base.

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30. (Previously presented) The apparatus of claim 22 wherein the manifold is the exclusive interface between the base and the head.

31. (Currently amended) The apparatus of claim 22 further comprising a bolt with a head, the bolt threaded into matching threads in the manifold at its ~~head~~ base end, upper and lower O-rings engaging the manifold spaced apart around its circumference, and wherein the manifold further comprises a manifold upper passageway radial from a manifold axis, which manifold axis runs longitudinally with the manifold, and a manifold upper circumferential groove intersecting the manifold upper passageway between the upper and lower O-rings and in fluid communication with the base passageway therein providing fluid communication between the base entry orifice through the base passageway to the manifold upper circumferential groove and then to the manifold axial passageway, the O-rings establishing a fluid seal between the base and the manifold such that fluid from the base entry orifice flows only into the manifold axial passageway.

32. (Previously presented) The apparatus of claim 31 in which the base has upper and lower recesses opening upward and downward, respectively, outward from the base

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and forming upper and lower shoulders around the base bore, the O-rings positioned on the upper and lower shoulders respectively, and wherein the manifold includes an annular shelf circumferential about the manifold and intermediate its length, the upper O-ring compressed between the bolt head and the upper shoulder and the lower O-ring compressed between the annular shelf and the lower shoulder as the bolt tightens into the manifold pulling the manifold shelf and the bolt head together on opposite sides of the head.

33. (Previously presented) The apparatus of claim 32 in which the lower recess and annular shelf are sized such that the shelf fits inside the lower recess when the bolt is tightened.

34. (Previously presented) The apparatus of claim 32 wherein the manifold is cylindrical of a constant diameter modified therefrom only by the manifold upper circumferential groove and the annular shelf.

35. (Previously presented) The apparatus of claim 31 wherein the head further includes a head bore perpendicular to a head axis running longitudinally with the head with a head passageway between the head bore and a head discharge orifice,

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and wherein the manifold further comprises a manifold lower passageway radial from the manifold axis and in fluid communication with the head passageway therein providing fluid communication between the base entry orifice and the head discharge orifice.

36. (Previously presented) A swivel nozzle useful on attachment to an extension pole for spraying pressurized fluids, comprising a base having a base bore perpendicular to a base axis running longitudinally with the base with a base passageway between the base bore and a base entry orifice, a base connector on the base at the entry orifice adapted to connect the base to a conduit providing pressurized fluid to the base through the entry orifice, upper and lower O-rings, a manifold swivelly connected to the base and having an axis that runs longitudinally with the manifold and an axial passageway axially through the manifold, a manifold upper passageway radial from the manifold axis, and a manifold upper circumferential groove intersecting the manifold upper passageway between the upper and lower O-rings spaced apart around the manifold and in fluid communication with the base passageway therein providing fluid communication between the base entry orifice through the base passageway to the manifold upper circumferential groove and then to the manifold axial passageway, the O-rings establishing a fluid seal between the base and the manifold such that fluid

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from the base entry orifice flows only into the manifold axial passageway, the manifold further having a manifold lower passageway radial from the manifold axis, the O-rings being within the swivel nozzle to protect them from damage during use,

a head with a head axis that runs longitudinally with the head and having a head bore perpendicular to the head axis receiving a portion of the manifold and a head passageway between the head bore and a head discharge orifice, the manifold lower passageway being in fluid communication with the head passageway, the manifold thus providing fluid connection between the base connector in the base and the discharge orifice in the head, with a fluid seal preventing fluid leakage between the manifold and the head, the head being spaced apart from the base with a continuous air gap between all base and head opposing surfaces in eliminating frictional engagement between them.

37. (Currently amended) The apparatus of claim 36 further comprising a bolt with a head, the bolt threaded into matching threads in the manifold at its head base end, and in which the base has upper and lower recesses opening upward and downward, respectively, outward from the base and forming upper and lower shoulders around the base bore, the O-rings positioned on the upper and lower shoulders respectively, and wherein the manifold includes an annular shelf circumferential

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about the manifold and intermediate its length, the upper O-ring compressed between the bolt head and the upper shoulder and the lower O-ring compressed between the annular shelf and the lower shoulder as the bolt tightens into the manifold pulling the manifold shelf and the bolt head together on opposite sides of the head, the lower recess and annular shelf are sized such that the shelf fits inside the lower recess when the bolt is tightened, wherein compression of the O-rings is adjusted by the bolt threading into the manifold.